

Document 00911

NOTICE OF
ADDENDUM NO. 3

Date of Addendum: 3/20/15

PROJECT NAME: Minnetex Place and Almeda Genoa Place Drainage and Paving

PROJECT NO: WBS No. M-000289-0002-4

BID DATE: March 26, 2015

FROM: Ravi Kaleyatodi, P.E., CPM, Senior Assistant Director
City of Houston, Public Works and Engineering Department
611 Walker St., 15th Floor
Houston, Texas 77002
Attn: Ellen Maas, P.E., Project Manager

TO: Prospective Bidders

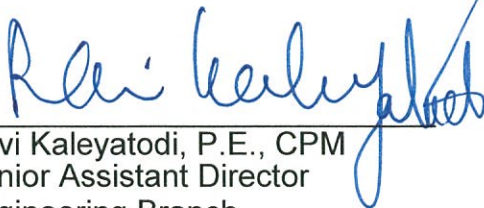
The referenced Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable.


Written questions regarding this Addendum may be submitted to the Project Manager following the procedures specified in Document 00200 – Instructions to Bidders. Immediately notify the City Engineer through the named Project Manager upon finding discrepancies or omissions in the Bid Documents.

This Addendum includes:

ADDENDUM SYNOPSIS

Changes to Project Manual
Changes to Construction Drawings
Clarification to Bid Documents



 Ravi Kaleyatodi, P.E., CPM
Senior Assistant Director
Engineering Branch
Engineering and Construction Division

DATED: 3/20/15

END OF DOCUMENT

Document 00910

ADDENDUM NO. 3

Date of Addendum: 3/20/15

PROJECT NAME: Minnetex Place and Almeda Genoa Place Drainage and Paving

PROJECT NO: WBS No. M-000289-0002-4

BID DATE: March 26, 2015

FROM: James T. Lincoln, P.E., City Engineer
City of Houston, Department of Public Works and Engineering
611 Walker Street, 15th Floor
Houston, Texas 77002
Attn: Ellen S. Maas, P.E., Project Manager

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars (|) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.



KIT Professionals, Inc.
TBPE Registration No. F-4997

CHANGE IN BID DATE

No change to the bid date.

CHANGES TO PROJECT MANUAL

BIDDING REQUIREMENTS

1. Document 00010 – Table of Contents. Remove and replace entire document.
2. Document 00410 – BID FORM – PART B. Remove and replace entire document.
3. Document 02992 – Portland Concrete Sack Segmented Retaining Wall. Add entire document.

CHANGES TO DRAWINGS

1. Sheet No. 64, 65 & Sheet 72 of 157 – Drawing Index. Replace entire sheet.
Reason – Proposed storm sewer size do not match.
2. Sheet No. 92 of 157 – Traffic Control Plan for MLK at Alameda Genoa. Reason –
Add Traffic Control Note.

CLARIFICATIONS

QUESTIONS FROM PLAN HOLDERS

- Q1. at sta 18+03 Cottingham Road, plan and profile sheets 64 and 65 of 157 shows a 48" storm sewer lateral and two SET's inlet. On sheet 72 of 157 plan view there are callouts for 24" storm sewer with two SET's inlets. what it's correct?

A1. Sheet 64, 65 and 72 of 157 have been revised and reissued in Addendum 3.

- Q2. (1) Would it be possible to add the following bid items:

 - (a) ROW prep
 - (b) Gate Valves for Water Line
 - (c) Dewatering – Well Point
 - (d) Wastewater Bypass Pumping?

(2) Please address the requirement for a Master Plumber. We are assuming this is needed for the tie-ins to existing services at property line?

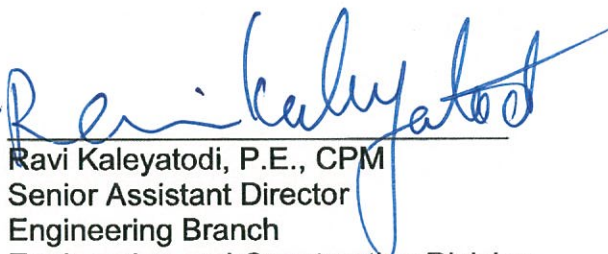
A2. (1) No separate payment will be made for ROW preparation, Gate valves, de-watering – Well Point, or By-Pass pumping for wastewater.

(2) Yes, a master plumber is required for the tie-ins at the property line.

- Q3. We have received requests from potential subcontractors and suppliers for the specification and/or detail regarding the Portland Concrete Sack Segmented Retaining Wall associated with Bid Item #92 and #93. It appears tha neither the 2014 City Standard Specification online or the Project Specifications contain this information. The revised Table of Contents for Addendum No. 1 lists Specification 02992; however, it cannot be located within the aforementioned documents. Please provide clarification on what guidance is to be utilized by the bidding contractors when submitting a cost for these two (2) bid items.
- A3. Specification 02992 – Portland Concrete Sack Segmented Retaining Wall will be added to Document 00010 - Table of Contents.

- Q4. The plans state: To "remove in C&G as necessary, Trees not protected by street tree ordinance. Paid as part of C&G, no additional pay." Except there is not a C&G pay Item. See below. Can you clarify?
- A4. A bid item has been added for Clearing and Grubbing to be paid for within the limits of the ditch regrading from east of Hendricksen Road to Kier Road.

END OF ADDENDUM NO. 3

For DPS

Ravi Kaleyatodi, P.E., CPM
Senior Assistant Director
Engineering Branch
Engineering and Construction Division

DATED: 8/20/18

END OF DOCUMENT

Doc. No.	Document Title	Doc. Date
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Document 00010

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NOTE: Bold capitalized Specification Sections are included in the City of Houston Department of Public Works and Engineering Standard Construction Specifications for Wastewater Collection Systems, Water Lines, Storm Drainage, Street Paving, and Traffic located here:
http://documents.publicworks.houstontx.gov/document-center/cat_view/88-engineering-and-construction/92-specifications/208-division-02-16-standard-specifications.html; and are incorporated in Project Manuals by reference as if copied verbatim. Documents listed "for filing" are to be provided by Bidder and are not included in this Project Manual unless indicated for example only. The Document numbers and titles hold places for actual documents to be submitted by Contractor during Bid, post-bid, or construction phase of the Project. Specification Sections marked with an asterisk (*) are amended by a supplemental specification, printed on blue paper and placed in front of the Specification it amends. Documents in the 200, 300 and 400 series of Division 00, except for Document 00410B – Bid Form, Part B, are not part of the Contract.

Doc. No.	Document Title	Doc. Date
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00010	Table of Contents	08-01-2013
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00041	List of Prequalified Asbestos & Lead Abatement Contractors	03-21-2012
00042	List of Designated Subcontractors and Suppliers	02-01-2004

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00220	Request for Bid Information	06-11-2004

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00452	Contractor Submission List - Fair Campaign Ordinance	04-30-2004

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00454	Affidavit of Non-interest	02-01-2004
00455	Affidavit of Ownership or Control.....	09-04-2007
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00459	Contractor's Statement Regarding Previous Contracts Subject to EEO.....	02-01-2004
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00603	Checklist for Drug Policy Submittal	02-09-2012
00604	History of OSHA Actions and List of On-the-job Injuries	02-01-2004
00605	List of Safety Impact Positions	02-01-2004
00606	Contractor's Certification of No Safety Impact Positions	02-01-2004
00607	Certification Regarding Debarment, Suspension, and Other Responsibility Matters	02-01-2004
00610	Performance Bond	05-17-2005
00611	Statutory Payment Bond	05-17-2005
00612	One-year Maintenance Bond	05-17-2005
00620	Affidavit of Insurance (with attached Certificates of Insurance).....	02-01-2004
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00624	Affidavit of Compliance with Affirmative Action Program.....	02-01-2004
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00642	Monthly Subcontractor Payment Reporting Form	02-01-2010
00646	Payment Notification Explanation of Withholding	02-01-2010
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00800	Supplementary Conditions	11-01-2014
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00808	Requirements for the City of Houston Program for Minority, Women, and Small Business Enterprises (MWSBE), and Persons with Disabilities Business Enterprises (PDBE) Program ..	08-01-2013
00820	Wage Scale for Engineering Construction.....	02-01-2015
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01570	Storm Water Pollution Control.....	01-26-2012
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*02315S	ROADWAY EXCAVATION.....	01-17-2013
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*02525S	TAPPING SLEEVES AND VALVES.....	11-17-2012
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Appendices

Appendix A - Geotechnical Investigation prepared by Geotest Engineering, Inc. - Report No. 1140195801 (dated April 30, 2014) (CD)

Appendix B – Trench Safety Letter prepared by Geotest Engineering, Inc. (dated April 30, 2014) (CD)

Appendix C - Phase I Environmental Site Assessment prepared by Geotest Engineering, Inc. – Report No. 1130018401 (dated October 22, 2013) (CD)

Minnetex Area and Alameda Genoa Place Drainage and Paving

WBS No.: M-000289-0002-4

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	Appendix E - Phase I Geologic Fault Study prepared by HVJ Associates, Inc. – Report No. HE1413020 (dated August 21, 2014) (CD)	
	Appendix F - SWPPP Report prepared by ASV Consulting Group, Inc. (dated November 14, 2014 (CD)	

END OF DOCUMENT

Document 00410B

BID FORM - PART B

1.0 TOTAL BID PRICE HAS BEEN CALCULATED BY BIDDER, USING THE FOLLOWING COMPONENT PRICES AND PROCESS (PRINT OR TYPE NUMERICAL AMOUNTS):

A. STIPULATED PRICE

(Total Bid Price; minus Base Unit Prices, Extra Unit Prices, Cash Allowance and All Alternates, if any)

\$ N/A

B. BASE UNIT PRICE TABLE:

UNIT PRICES - GENERAL ITEMS						
Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
1	01502	Mobilization	LS	1	\$200,000.00 ⁽¹⁾	\$200,000.00 ⁽¹⁾
2	01554	Installation of Traffic Signs	EA	40	\$	\$
3	01555	Flagman	LS	1	\$ <u>82,000.00</u> Min (2)	\$ <u>82,000.00</u> Min (2)
4	01555	Install low profile concrete barriers	LF	2,500	\$	\$
5	01555	Relocate low profile concrete barriers	LF	12,000	\$	\$
6	01555	Remove low profile concrete barriers	LF	2,500	\$	\$
7	01555	Traffic Control and Regulation	LS	1	\$ <u>100,000.00</u> Min (2)	\$ <u>100,000.00</u> Min (2)
8	01562	Tree and Plant Protection	LS	1	\$ <u>80,000.00</u> Min (2)	\$ <u>80,000.00</u> Min (2)
9	02915	Plant 3" tree with 65 gallon container	EA	74	\$	\$
10	01562	Install Checker Plate	SF	200	\$	\$
11	01110	Removal and Re-Installation of Custom Mail Boxes with 4 1/2" Reinforced Concrete Base	EA	5	\$	\$
12	02714	Flexible Base Course/temp Driveways Residential upto 12 feet Wide	EA	135	\$	\$
13	02714	Flexible Base Course/temp Driveways Commercial upto 24 feet wide	EA	10	\$	\$
14	02741	Detour road including 6-inch flexible base, tack coat, 1 1/2 inch Type D hot-mix asphaltic concrete surfacing and associated grading and ditches	SY	12,500	\$	\$
15	01570	Sandbag Barrier	LF	2,500	\$	\$
16	01570	Reinforced Filter Fabric barrier	LF	1,500	\$	\$
17	01570	Filter Fabric Fence	LF	1,500	\$	\$
18	01575	Stabilized construction exit	EA	2	\$	\$

Minnetex Place and Alameda Genoa Place Drainage and Paving
Project No. WBS No. M-000289-0002-4

**BID FORM
PART B**

UNIT PRICES - GENERAL ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
19	02581	Conduit 2-inch Sch 40 PVC	LF	2,500	\$	\$
20	02581	Conduit 2-inch Sch 80 PVC	LF	800	\$	\$
21	02105	Preparatory Work for Sampling and Analysis within PPCA Limits	LS	1	\$	\$
22	02120	Transportation and Disposal of Class I Soils	CY	500	\$	\$
23	02120	Transportation and Disposal of Class II Soils	CY	500	\$	\$
24	02120	Transportation and Disposal of Contaminated Groundwater from PPCA	Gal	200	\$	\$
25	02233	Clearing and Grubbing	Ac	2	\$	\$
26	02921	Hydro-Mulch Seeding	Ac	3	\$	\$
27	02922	Sodding	SY	28,000	\$	\$
28	DWGS	Type III Barricade	EA	2	\$	\$

TOTAL UNIT PRICES - GENERAL ITEMS

\$ _____

UNIT PRICES - PAVING ITEMS

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
29	02221	Remove and Dispose of Asphalt Pavement with or without Base (all thicknesses)	SY	27,610	\$	\$
30	02221	Remove & Dispose of Driveways, All Materials	SY	5,230	\$	\$
31	02221	Removing and disposing of concrete pavements (including all thickness, w/ or w/o asphalt, including base & subgrade, w/ or w/o curb, all depths)	SY	160	\$	\$
32	02221	Remove/ Dispose Conc Sidewalk 4-inch thick/More	SY	30		
33	02221	Remove and Dispose of Miscellaneous Concrete and Masonry	CY	60	\$	\$
34	02221	Remove and Dispose of Miscellaneous Concrete and Masonry in PPCA	CY	5	\$	\$
35	02086	Adjust Existing Manhole Frame and Cover to New Grade	EA	1	\$	\$
36	01740	Remove, Relocate and/or Replacement of Existing Barbed Wire Fence to ROW (Including Gates)	LF	3,600	\$	\$
37	01740	Remove, Relocate and/or Replacement of Existing Wood Fence (Including Gates) to ROW	LF	2,200	\$	\$
38	01740	Remove, Relocate and/or Replacement of Existing Wrought Iron Fence (Including Gates) to ROW	LF	1,200	\$	\$
39	01740	Remove, Relocate and/or Replacement of Existing Chain Link Fence to ROW	LF	3,800	\$	\$
40	02315	Roadway Excavation with or without subgrade	CY	34,300	\$	\$
41	02315	Embankment Fill (Optional)	CY	6,900		
42	02336	Lime for Lime stabilized Subgrade (6%)	Ton	760	\$	\$
43	02336	Lime for Lime stabilized Subgrade (7%)	Ton	250		
44	02336	Lime Stabilized Subgrade 8-inch thick	SY	48,540	\$	\$
45	02751	Reinforced Concrete Pavement 7-inch thick	SY	30,780	\$	\$

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**BID FORM
PART B**

UNIT PRICES - PAVING ITEMS						
Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
46	02751	High Early Strength Reinforced Con Pav 7-inch thick	SY	3,320	\$	\$
47	02751	Reinforced Concrete Pavement 10-inch thick	SY	7,730	\$	\$
48	02752S	Saw-Cutting	LF	513		
49	02754	Concrete Driveways including Excavation 6-inch thick	SF	32,590	\$	\$
50	02754	Concrete Driveways including Excavation 7-inch thick	SF	750	\$	\$
51	02771	Concrete Paving Header	LF	300	\$	\$
52	02762	Blast cleaning pavement markers 4-inch wide lines	LF	5,000	\$	\$
53	02762	Blast cleaning pavement markers 6-inch wide lines	LF	1,000	\$	\$
54	02762	Blast cleaning pavement markers 8-inch wide lines	LF	160	\$	\$
55	02762	Blast cleaning pavement markers 24-inch wide lines	LF	340	\$	\$
56	02762	Blast cleaning Pavement Markers TURNING ARROW	SF	250	\$	\$
57	02762	Blast cleaning Pavement Markers ONLY	SF	100	\$	\$
58	02765	Temporary Pavement Markers Class 2	LF	7,000	\$	\$
59	02767	Thermoplastic Pavement Marking 4-inch wide Yellow (BRK)	LF	5,950	\$	\$
60	02764	Removal Raised Pavement Markers All Types	LS	1	\$	\$
61	02764	RAISED PAVEMENT MARKER - TYPE II A-A	EA	1,200	\$	\$
62	02764	RAISED PAVEMENT MARKER - TYPE II C-R	EA	12	\$	\$
63	02767	THERMOPLASTIC PAVEMENT MARKINGS, 4-IN WHITE, DASHED	LF	40	\$	\$

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**BID FORM
PART B**

UNIT PRICES - PAVING ITEMS						
Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
64	02767	THERMOPLASTIC PAVEMENT MARKINGS, 4-IN WHITE, SOLID	LF	410	\$	\$
65	02767	THERMOPLASTIC PAVEMENT MARKINGS, 6-IN WHITE, SOLID	LF	448	\$	\$
66	02767	THERMOPLASTIC PAVEMENT MARKINGS, 12-IN WHITE, SOLID	LF	444	\$	\$
67	02767	THERMOPLASTIC PAVEMENT MARKINGS, 24-IN YELLOW, SOLID	LF	500	\$	\$
68	02767	THERMOPLASTIC PAVEMENT MARKING SYMBOL TURNING ARROW	EA	12	\$	\$
69	02767	THERMOPLASTIC PAVEMENT MARKING ELONGATED WORD ONLY	EA	2	\$	\$
70	02772	6-inch Concrete Median or Directional Island	SY	10	\$	\$
71	02771	6-Inch Doweled Curb	LF	13,420	\$	\$
72	02771	6-Inch Concrete Curb (Monolithic)	LF	300	\$	\$
73	02775	Sidewalk 4-1/2-inch thick	SF	107,530	\$	\$
74	02775	Curb Ramp	SF	3,050	\$	\$
75	DWGS	Speed Cushion	LF	81	\$	\$
76	02741	Hot Mix Asphalt Concrete Pavement 3-inch thick	Ton	160	\$	\$
77	02711	Hot Mix Asphalt Base Course (Type A) / All Thickness	Ton	640	\$	\$
78	02752	Horizontal Dowel, 24-Inch	EA	50	\$	\$
79	02752	Street Pavement Expansion Joint with Load Transfer	LF	5,000		
80	02752	Preformed Expansion Joints	LF	10,500	\$	\$
81	02992	Portland Concrete Sack Segmented Retaining Wall (6" to up to 2')	SF	3,600	\$	\$
82	02992	Portland Concrete Sack Segmented Retaining Wall (2' to 4')	SF	500	\$	\$
TOTAL - PAVEMENT ITEMS						\$ _____

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**BID FORM
PART B**

UNIT PRICES - STORM SEWER ITEMS

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
83	02221	Remove/Dispose Inlets all sizes/depth	EA	2	\$	\$
84	DWGS	Remove & Dispost of Existing Guard Post	EA	2	\$	\$
85	DWGS	Remove & Dispose of Existing Guard Rail	LF	50	\$	\$
86	02221	Remove/Dispose storm pipe 15-inch dia	LF	2,950	\$	\$
87	02221	Remove/Dispose storm pipe 15-inch dia in PPCA	LF	80	\$	\$
88	02221	Remove/Dispose storm pipe 24-inch dia	LF	1,330	\$	\$
89	02221	Remove/Dispose storm pipe 24-inch dia in PPCA	LF	30	\$	\$
90	02221	Remove/Dispose storm pipe 30-inch dia	LF	50		
91	02221	Remove/Dispose storm pipe 36-inch dia	LF	320	\$	\$
92	02221	Remove & Dispose of Existing 4-ft X 6-ft RCB (Including Hand Rail)	LF	90	\$	\$
93	02221	Remove & Dispose of Existing 9-Foot X 7-Foot RCB	LF	30	\$	\$
94	02081 /02082 /02087	Type C Manhole for 42-Inch Diameter & Smaller Sewers	EA	33	\$	\$
95	02082	Extra Depth for Type C Manhole for 42-Inch Diameter & Smaller Sewers	VF	46	\$	\$
96	02081 /02082 /02087	Type C Manhole for 42-Inch Diameter & Smaller Sewers within PPCA Limits	EA	2		
97	02081 / 02082 / 02087	Type C Manhole for 48-inch to 72-inch Diameter Sewers	EA	19	\$	\$
98	02082	Extra Depth for Type C manhole for 48-inch to 72- inch storm sewers	VF	53	\$	\$
99	02081 / 02082 / 02087	Conflict Manhole for 42-Inch Diameter & Smaller	EA	1	\$	\$
100	02081/ 02082 / 02087	Manhole for Concrete Box Sewers	EA	7	\$	\$
101	DWGS	Junction Box - Cottingham Road (Station 1+86)	EA	1	\$	\$
102	DWGS	Junction Box - Cottingham Road (Station 6+60)	EA	1	\$	\$
103	DWGS	Junction Box - Cottingham Road (Station 8+47)	EA	1	\$	\$
104	DWGS	Junction Box - Cottingham Road (Station 12+59.50)	EA	1	\$	\$
105	DWGS	Junction Box - Cottingham Road (Station 13+07)	EA	1	\$	\$
106	DWGS	Junction Box - Cottingham Road (Station 13+40.50)	EA	1	\$	\$
107	DWGS	Junction Box - Cottingham Road (Station 15+50)	EA	1	\$	\$
108	DWGS	Junction Box - Cottingham Road (Station 22+14.60)	EA	1	\$	\$
109	02633	Type C-1 Inlet	EA	78	\$	\$
110	02633	Type C-1 Inlet within limits of PPCA	EA	2	\$	\$

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**BID FORM
PART B**

UNIT PRICES - STORM SEWER ITEMS						
Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
111	02632 / 02633	Type A Grate Inlet	EA	5	\$	\$
112	02631	24-Inch Diameter Storm Sewer Lead	LF	1,270	\$	\$
113	02631	24-Inch Diameter Storm Sewer Lead within limits of PPCA	LF	90	\$	\$
114	02631	24-Inch Diameter Storm Sewer by Open Cut	LF	910	\$	\$
115	02631	30-Inch Diameter Storm Sewer by Open Cut	LF	470	\$	\$
116	02631	36-Inch Diameter Storm Sewer by Open Cut	LF	2,450	\$	\$
117	02631	36-Inch Diameter Storm Sewer by Open Cut within limits of PPCA	LF	230	\$	\$
118	02631	42-Inch Diameter Storm Sewer by Open Cut	LF	1,410	\$	\$
119	02631	48-Inch Diameter Storm Sewer by Open Cut	LF	1,340	\$	\$
120	02631	54-Inch Diameter Storm Sewer by Open Cut	LF	1,970	\$	\$
121	02631	60-Inch Diameter Diameter Storm Sewer by Open Cut	LF	1,090	\$	\$
122	02631	9-Foot by 7-Foot Box Storm Sewer by Open Cut	LF	2,030	\$	\$
123	02631	8-Foot by 4-Foot Box Storm Sewer by Open Cut	LF	30	\$	\$
124	02315	Reconstruction of Roadside Ditch	LF	3,650	\$	\$
125	04210	36-Inch Diameter Brick Plug	EA	1	\$	\$
126	04210	8-Foot X 4-Foot Brick Plug	EA	2	\$	\$
127	02511	Remove 9-Foot X 7-Foot internal elliptical or dished head plug	EA	1	\$	\$
128	HCFC D 02378	Rip-Rap Gradation No. 2, 24-inch thick mat	SY	150	\$	\$
129	DWGS	SET (24-Inch) (3:1)	EA	8	\$	\$
130	DWGS	SET (24-Inch) (3:1) within Limits of PPCA	EA	2	\$	\$
131	DWGS	SET (36-Inch) (3:1)	EA	1	\$	\$
132	02260	Trench safety system for Trench Excavations	LF	13,230	\$	\$
133	02260	Trench safety system for Trench Excavations within limits of PPCA	LF	320	\$	\$
TOTAL UNIT PRICES - STORM SEWER ITEMS						\$ _____

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**BID FORM
PART B**

UNIT PRICES - WATER ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
134	02221	Remove/Dispose 4-inch diameter CI water line	LF	40	\$	\$
135	02221	Remove/Dispose 6-inch diameter CI water line	LF	160	\$	\$
136	02221	Remove/Dispose 8-inch diameter CI water line	LF	120	\$	\$
137	02221	Remove/Dispose 12-inch diameter CI water line	LF	60	\$	\$
138	02516	Cut, plug, and abandon existing 8-inch diameter water line	EA	4	\$	\$
139	02516	Cut, plug, and abandon existing 8-inch diameter water line within limits of PPCA	EA	1	\$	\$
140	02516	Cut, plug, and abandon existing 12-inch diameter water line	EA	2	\$	\$
141	02516	Cut, plug, and abandon existing 16-inch diameter water line	EA	2	\$	\$
142	02512	3/4-inch to 1-inch diameter water taps and copper service line with meter box, short side	EA	33	\$	\$
143	2512	3/4-inch to 1-inch diameter water taps and copper service line with meter box, long side	EA	43	\$	\$
144	02512	3/4-inch to 1-inch diameter water taps and copper service line with meter box, short side within limits of PPCA	EA	3	\$	\$
145	02512	3/4-inch to 1-inch diameter (water taps) copper service line with meter box, long side within limits of PPCA	EA	3	\$	\$
146	02512	1-1/2-inch to 2-inch diameter watertap and service line with meter box, short side	EA	2	\$	\$
147	02512	1-1/2-inch to 2-inch diameter watertap and service line with meter box, long side	EA	2	\$	\$
148	02511	6-Inch Diameter Water Line by Open-Cut	LF	750	\$	\$
149	02511	8-Inch Diameter Water Line by Open-Cut	LF	6,760	\$	\$
150	02511	8-Inch Diameter Water Line by Open-Cut Within limits of PPCA	LF	210	\$	\$
151	02511	8-Inch Diameter Water Line by Open-Cut with Restrained Joints	LF	100	\$	\$
152	02511	8-Inch Diameter DIP Water Line by Open-Cut with Restrained Joints	LF	610	\$	\$
153	02511	8-Inch Diameter Water Line by Trenchless Construction	LF	90	\$	\$
154	02511	8-Inch Diameter Water Line by Trenchless Construction within Limits of PPCA	LF	50	\$	\$
155	02511	8-Inch Diameter Water Line by Trenchless Construction with Restrained Joints	LF	50	\$	\$
156	02511	8-Inch Diameter DIP Water Line by Trenchless Construction with Restrained Joints	LF	170	\$	\$
157	02511	8-Inch Diameter DIP Water Line by Open-Cut with Restrained Joints within limits of PPCA	LF	40	\$	\$

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**BID FORM
PART B**

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
158	02511	12-Inch Diameter Water Line by Open-Cut	LF	3,590	\$	\$
159	02511	12-Inch Diameter Water Line by Open-Cut with Restrained Joints	LF	80	\$	\$
160	02511	12-Inch Diameter DIP Water Line by Open-Cut with Restrained Joints	LF	490	\$	\$
161	02511	12-Inch Diameter DIP Water Line by Trenchless Construction with Restrained Joints	LF	120	\$	\$
162	02511	12-Inch Diameter Water Line Trenchless Construction	LF	100	\$	\$
163	02511	16-Inch Diameter Water Line by Open-Cut with Restrained Joints	LF	100	\$	\$
164	02511	16-Inch Diameter DIP Water Line by Open-Cut with Restrained Joints	LF	70	\$	\$
165	02513	8-Inch Diameter Wet Connection	EA	3	\$	\$
166	02513	12-Inch Diameter Wet Connection	EA	2	\$	\$
167	02513	16-Inch Diameter Wet Connection	EA	2	\$	\$
168	02520	Fire Hydrant Assembly, All Depths, Including 6-Inch Diameter Gate Valve with Box	EA	29	\$	\$
169	02520	6-Inch Diameter Fire Hydrant Branch by Open-Cut	LF	300	\$	\$
170	02520	Remove and Salvage Existing Fire Hydrant	EA	12	\$	\$
171	02525	16-Inch by 8-Inch Tapping Sleeve and Valve with Box	EA	2	\$	\$
172	02525	16-Inch by 8-Inch Tapping Sleeve and Valve with Box within limits of PPCA	EA	1	\$	\$
173	DWGS	Relocate and re-install water meter with new box	EA	86	\$	\$
174	02511	6-Inch Diameter Plug and Clamp	EA	2	\$	\$
175	02260	Trench safety system for Trench Excavations	LF	13,050	\$	\$
176	02260	Trench safety system for Trench Excavations within limits of PPCA	LF	240	\$	\$
TOTAL UNIT PRICES - WATER ITEMS						\$ _____

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**BID FORM
PART B**

UNIT PRICES - WASTEWATER ITEMS						
Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
177	02221	Remove/Dispose Manholes all Sizes/Depths	EA	19	\$	\$
178	02221	Remove and Dispose 8 inch sewer line	LF	3,450	\$	\$
179	02221	Remove and Dispose 8 inch sewer line within PPCA Limits	LF	135	\$	\$
180	02221	Remove and Dispose 15-Inch sewer line	LF	760	\$	\$
181	02221	Remove and Dispose 30-Inch sewer line	LF	1,710	\$	\$
182	02531	8-inch Diameter Sanitary Sewer by open-cut	LF	5,910	\$	\$
183	02222	Abandon and fill manhole	EA	22	\$	\$
184	02222	Abandon and Fill 8-inch Diameter Sewer	LF	2,100	\$	\$
185	02222	Abandon and Fill 12-inch Diameter Sewer	LF	1,330	\$	\$
186	02222	Abandon and Fill 15-inch Diameter Sewer	LF	400	\$	\$
187	02531	8-inch Diameter Sanitary Sewer within PPCA	LF	140	\$	\$
188	DWGS	8-inch Diameter Sanitary Sewer with Casing	LF	40	\$	\$
189	02531	15-inch Diameter Sanitary Sewer by open-cut	LF	1,340	\$	\$
190	02531	18-inch Diameter Sanitary Sewer by open-cut	LF	1,160	\$	\$
191	02531	36-inch Diameter Sanitary Sewer by open-cut	LF	1,710	\$	\$
192	02534	Reconnect Existing Sanitary Sewer to New Manhole	EA	9	\$	\$
193	02534	Service stubs or reconnections with or without stack on sanitary sewer	EA	122	\$	\$
194	02082	4-Foot Diameter Precast Concrete Manholes	EA	28	\$	\$
195	02082	4-Foot Diameter Precast Concrete Manholes within limits of PPCA	EA	1	\$	\$
196	02082	Extra Depth for 4-foot Dia. Sanitary Sewer Manhole	VF	64	\$	\$
197	02082	4-foot Diameter Corrosion-Resistant Manholes	EA	2	\$	\$
198	02082	Extra Depth for 4-foot Dia. Corrosion-Resistant Sanitary Sewer Manhole	VF	8	\$	\$
199	02082	5-Foot Diameter Precast Concrete Manholes	EA	2	\$	\$
200	02082	Extra Depth for 5-foot Dia. Sanitary Sewer Manhole	VF	16	\$	\$
201	02082	6-foot Diameter Corrosion-Resistant Manholes	EA	3	\$	\$
202	02082	Extra Depth for 6-foot Dia. Corrosion-Resistant Sanitary Sewer Manhole	VF	28	\$	\$
203	02082	7-Foot Diameter Precast Concrete Manholes	EA	1	\$	\$
204	02082	Extra Depth, 7-Foot Diameter Precast Concrete Manhole	VF	12	\$	\$
205	02534	6-inch diameter sanitary sewer service lines	LF	3,930	\$	\$

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BID FORM
PART B

UNIT PRICES - WASTEWATER ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
206	02082	Manhole Drops; 8-inch diameter, all depths	EA	4	\$	\$
207	02082	Manhole Drops; 15-inch diameter and greater, all depths	EA	1	\$	\$
208	02534	Install Clean-Out	EA	122	\$	\$
209	02534	Install Clean-Out within limits of PPCA	EA	4	\$	\$
210	02260	Trench safety system for Trench Excavations	LF	10,096	\$	\$
211	02260	Trench safety system for Trench Excavations within limits of PPCA	LF	248	\$	\$

TOTAL UNIT PRICES - WASTEWATER ITEMS

\$ _____

UNIT PRICES - TRAFFIC SIGNALIZATION

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
212	02582	25-FT MAST ARM POLE ASSEMBLY WITH FOUNDATION	EA	1	\$	\$
213	02582	30-FT MAST ARM POLE ASSEMBLY WITH FOUNDATION	EA	2	\$	\$
214	02582	50-FT MAST ARM POLE ASSEMBLY WITH FOUNDATION	EA	1	\$	\$
215	02893-03	PEDESTRIAN PUSH BUTTON POLE WITH FOUNDATION	EA	1	\$	\$
216	02893-06	PEDESTAL POLE ASSEMBLY WITH SCREW-IN ANCHOR FOUNDATION	EA	3	\$	\$
217	02893-14	ELECTRICAL SERVICE PEDESTAL ASSEMBLY - 70AMP ("SQUARE D" BREAKERS INCLUDED)	EA	1	\$	\$
218	02893	OVERHEAD STREET NAME SIGNS	EA	6	\$	\$
219	02893	SIGN, "LEFT TURN YIELD ON FLASHING YELLOW ARROW", R10-17T (24" X 30")	EA	8	\$	\$

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**BID FORM
PART B**

UNIT PRICES - TRAFFIC SIGNALIZATION

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
220	16710	TYPE "A" PULL BOX WITH APRON, GRAVEL AND GROUND ROD	EA	11	\$	\$
221	16710	TYPE "B" PULL BOX WITH APRON, GRAVEL AND GROUND ROD	EA	3	\$	\$
222	16710	TYPE "C" PULL BOX WITH APRON, GRAVEL AND GROUND ROD	EA	1	\$	\$
223	16711	CONDUIT, 1-IN SCH 80 PVC TRENCH	LF	120	\$	\$
224	16711	CONDUIT, 2-IN SCH 80 PVC TRENCH	LF	1,500	\$	\$
225	16711	CONDUIT, 2-IN SCH 80 PVC BORE	LF	300	\$	\$
226	16711	CONDUIT, 2-IN RMC	LF	100	\$	\$
227	16711	CONDUIT, 3-INCH SCH 80 PVC TRENCH	LF	100	\$	\$
228	16711	CONDUIT, 4-INCH SCH 80 PVC TRENCH	LF	250	\$	\$
229	16711	CONDUIT, 4-INCH SCH 80 PVC BORE	LF	400	\$	\$
230	16713	TRAFFIC SIGNAL PRE-FORMED LOOPS (6'x6')	EA	2	\$	\$
231	16713	TRAFFIC SIGNAL PRE-FORMED LOOPS (6'x30')	EA	1	\$	\$
232	16715	3-SECTION VEHICLE SIGNAL HEAD ASSEMBLY (RYG) (HORIZONTAL) (H3)	EA	8	\$	\$
233	16715	4-SECTION VEHICLE SIGNAL HEAD ASSEMBLY (<R<Y<Y<G) (VERTICAL) (V4LF)	EA	4	\$	\$
234	16715	4-SECTION VEHICLE SIGNAL HEAD ASSEMBLY (<R<Y<Y<G) (HORIZONTAL) (H4LF)	EA	4	\$	\$
235	16719	LED PEDESTRIAN SIGNAL HEAD ASSEMBLY (SYMBOLIC) (COUNTDOWN)	EA	8	\$	\$
236	16720	TRAFFIC SIGNAL CABLES, DETECTOR LEAD-IN CABLE 2/C-#14 AWG IMSA 50-2-1984	LF	2,900	\$	\$
237	16720	TRAFFIC SIGNAL CABLES, 3/C-#14 AWG SOLID CABLE	LF	900	\$	\$
238	16720	TRAFFIC SIGNAL CABLES, 5/C-#14 AWG SOLID CABLE	LF	900	\$	\$
239	16720	TRAFFIC SIGNAL CABLES, 7/C-#14 AWG SOLID CABLE	LF	2,000	\$	\$
240	16720	#4 XHHW SERVICE WIRE	LF	300	\$	\$
241	16724	EMERGENCY VEHICLE PREEMPTION SYSTEM	EA	1	\$	\$
242	16727	LOOP DETECTOR SAWCUT WITH LOOP WIRE	LF	800	\$	\$
243	16730	ITS CONTROLLER CABINET ASSEMBLY (MODEL 340) (TYPE 2070L)	EA	1	\$	\$

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**BID FORM
PART B**

UNIT PRICES - TRAFFIC SIGNALIZATION						
Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
244	02893-10C	CONTROLLER CABINET FOUNDATION WITH APRON	EA	1	\$	\$
245	16732	UNINTERRUPTIBLE POWER SUPPLY	EA	1	\$	\$
246	16750	ACCESSIBLE PEDESTRIAN PUSH BUTTON STATION	EA	8	\$	\$
247	16785	GPS SERIAL COMMUNICATION MODULE	EA	1	\$	\$
248	16734	FIELD HARDENED ETHERNET SWITCH (SIX COPPER PORTS ONLY)	EA	1	\$	\$
249	16734	INSTALL WIMAX (INCLUDING CAT 5E CABLE)	EA	1	\$	\$
TOTAL UNIT PRICES - TRAFFIC SIGNALIZATION						\$ _____
TOTAL BASE UNIT PRICES:					\$ _____	

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**BID FORM
PART B**

C. EXTRA UNIT PRICE TABLE						
Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in Figures
250	02105	Extra PPCA handling	LS	1	\$ \$50,000.00 (min) ⁽²⁾	\$ \$50,000.00 (min) ⁽²⁾
251	02221	Remove Miscellaneous Concrete and Masonry	CY	100	\$ \$50.00 (min) ⁽²⁾	\$ \$5,000.00 (min) ⁽²⁾
252	02317	6-Inch Over Excavate trench bottom	LF	100	\$ \$3.00 ⁽²⁾	\$ \$300.00 (min) ⁽²⁾
253	02318	Excavation Around Obstructions	CY	100	\$ \$10.00 (min) ⁽²⁾	\$ \$1,000.00 (min) ⁽²⁾
254	02120	Excavation Around Obstacles within limits of PPCA	CY	100	\$ \$10.00 (min) ⁽²⁾	\$ \$1,000.00 (min) ⁽²⁾
255	02318	Extra Hand Excavation	CY	100	\$ \$20.00 (min) ⁽²⁾	\$ \$2,000.00 (min) ⁽²⁾
256	02120	Extra Hand Excavation within limits of PPCA	CY	100	\$ \$20.00 (min) ⁽²⁾	\$ \$2,000.00 (min) ⁽²⁾
257	02318	Extra Machine Excavation	CY	100	\$ \$10.00 (min) ⁽²⁾	\$ \$1,000.00 (min) ⁽²⁾
258	02120	Extra Machine Excavation in PPCA	CY	100	\$ \$10.00 (min) ⁽²⁾	\$ \$1,000.00 (min) ⁽²⁾
259	02318	Extra Placement of Backfill Material	CY	100	\$ \$15.00 (min) ⁽²⁾	\$ \$1,500.00 (min) ⁽²⁾
260	02120	Extra Placement of Backfill Material in PPCA	CY	100	\$ \$15.00 (min) ⁽²⁾	\$ \$1,500.00 (min) ⁽²⁾
261	02318	Extra Placement of Granular Fill Material	CY	100	\$ \$20.00 (min) ⁽²⁾	\$ \$2,000.00 (min) ⁽²⁾
262	02120	Extra Placement of Backfill Material in PPCA	CY	100	\$ \$20.00 (min) ⁽²⁾	\$ \$2,000.00 (min) ⁽²⁾
263	02318	Extra Cement Stabilized Sand	CY	100	\$ \$25.00 (min) ⁽²⁾	\$ \$2,500.00 (min) ⁽²⁾
264	03315	Extra Grade 60 Reinforcing Steel in Place	LB	1,000	\$ \$25.00 (min) ⁽²⁾	\$ \$2,500.00 (min) ⁽²⁾
265	02511	Extra Water Fittings in Place	Ton	1	\$ \$3,000.00 (min) ⁽²⁾	\$ \$3,000.00 (min) ⁽²⁾
TOTAL UNIT PRICES - EXTRA WORK ITEMS						\$

Minnetex Place and Almeda Genoa Place Drainage and Paving
Project No. WBS No. M-000289-0002-4

**BID FORM
PART B**

D. CASH ALLOWANCES			
Item No.	Spec Ref.	Base Unit Short Title	Cash Allowance in figures (1)
266	01110	City of Houston Street Cut Permits	\$3,500.00 ⁽¹⁾
267	01110	NPDES Permit	\$500.00 ⁽¹⁾
268	01110	CenterPoint Energy Remove and/or Install Street Lights	\$10,000.00 ⁽¹⁾
TOTAL CASH ALLOWANCES			\$14,000.00 ⁽¹⁾

E. ALTERNATES TABLE:						
Item No.	Spec Ref.	Alternate Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total Price for Alternate in Figures
		N/A				
TOTAL ALTERNATES						\$ _____

F. TOTAL BID PRICE:

(Add Totals for Items A., B., C., D., and E. above)

\$ _____

2.0 SIGNATURES: By signing this Document, I agree that I have received and reviewed all Addenda and considered all costs associated with the Addenda in calculating the Total Bid Price.

Bidder:

(Print or type full name of your proprietorship, partnership, corporation, or joint venture.*)

****By:**

Signature

Date

Name:

(Print or type name)

Title

Address:

(Mailing)

(Street, if different)

Telephone and Fax Number:

(Print or type numbers)

* If Bid is a joint venture, add additional Bid Form signature sheets for each member of the joint venture.

** Bidder certifies that the only person or parties interested in this offer as principals are those named above. Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding.

Note: This document constitutes a government record, as defined by § 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in § 37.10 of the Texas Penal Code.

Footnotes for Tables B through E:

- (1) Fixed Unit Price determined prior to Bid. Cannot be adjusted by the Bidder.
- (2) Minimum Bid Price determined prior to Bid. Can be increased by the Bidder by crossing out the Minimum and noting revised price on the line above.
- (3) Maximum Bid Price determined prior to Bid. Can be decreased but not increased by Bidder by crossing out the Maximum and noting revised price on the line above. A Bid that increases the Maximum Bid Price may be found non-conforming and non-responsive.
- (4) Fixed Range Bid Price determined prior to Bid. Unit Price can be adjusted by Bidder to any amount within the range defined by crossing out prices noted and noting revised price on the line above.

Section 01110

SUMMARY OF WORK

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Summary of the Work including Work Covered by Contract Documents, Cash Allowances, City-furnished Products, Work Sequence, Contractor Use of Premises, Street Cut Ordinance, Warranty, and Additional Conditions for Substantial Completion.
- B. Justification: Project will construct storm drainage improvements to address and reduce the risk of structural flooding. Improvements include modification of street conveyance and sheet flow, and provide detention as needed for mitigation.

1.02 WORK COVERED BY CONTRACT DOCUMENTS

- A. Work of the Contract is for construction of Minnetex Place and Almeda Genoa Place and includes the installation of new storm sewer, storm sewer leads, storm manholes, inlets, and related appurtenances within City right-of-way throughout the project limits as identified in the Contract Drawings. Sanitary lines and services, sanitary manholes, and related appurtenances within City right-of-way throughout the project limits as identified in the Contract Drawings. The intent of the project is to construct concrete curb-and-gutter streets with sub-surface drainage, replace with new water and sewer lines as identified in the Contract Drawings. The project also includes replacing street pavement, driveways, curbs, sidewalks, wheelchair ramps, permanent signs, pavement markings, street lights, sanitary lines and services, sanitary manholes, water lines and services, and related appurtenances as identified in the Contract Drawings. Contractor will be required to install and maintain tree protection measures, storm water management devices and traffic control for the duration of the project.
- B. The project area is generally located in south central within the City of Houston. The project is generally bounded by Almeda Genoa Road to the north, Kier Road to the east, Allison Road to the south, and Lea Road to the west. The approximate locations of the project limits are as follows:
 - 1. Lincolnshire Road: From approximately 430 feet west of the intersection of Lea Road to Hendricksen Road
 - 2. Glengarry Road: From approximately 430 feet west of the intersection of Lea Road to Hendricksen Road
 - 3. Allison Road: From approximately 140 feet west of the intersection of Lea Road to Hendricksen Road (Paving, Drainage, Water & Wastewater)
 - 4. Allison Road: From Hendricksen Road east to Kier Road (Ditch Regrading)
 - 5. Lea Road: Allison Road to Almeda Genoa Road
 - 6. Cottingham Road: 120 feet south of Allison Road to Almeda Genoa Road
 - 7. MLK Boulevard: From Almeda Genoa Road north to approximately 370 feet north of Almeda Genoa Road
- C. The project consists of 7-inch and 10-inch reinforced concrete pavement with 6-inch curb, asphaltic concrete transition, storm sewer pipe ranging from 24-inch through 60-inch and 9-feet x 7-feet reinforced concrete box, including double 8-feet x 4-feet stub-out reinforced

01110-1

03-26-2014

Addendum No. 3

concrete box sewer of various sizes, 8, 15, 18 and 36-inch sanitary sewer lines, including all appurtenances, and 6-inch through 16-inch water lines, including all appurtenances. Construction methods for utilities include open cut and trenchless methods.

1. The construction of the pavement will include the removal of the existing asphalt pavement (with and without asphalt overlay) and replacement with 7-inch reinforced concrete pavement with 6-inch curbs, as shown on plans with Minnetex and Almeda Genoa Place Subdivision and 10-inch reinforced concrete pavement on ML King Boulevard and Cottingham Road. The proposed 7-inch concrete pavement will have 8-inch stabilized subgrade utilizing 6% lime (unless otherwise noted). The 10-inch reinforced concrete pavement will have 8-inch lime stabilized subgrade utilizing 7% lime. 5-foot sidewalks and curb ramps will be constructed as indicated in the Contract Drawings. 6-foot sidewalks will be installed on MLK north of Almeda Genoa. Contractor will be responsible to reference the Tree Protection Plan in conjunction with the Plan and Profile sheets in order to coordinate where checker plates are to be used in lieu of proposed sidewalk, as per provided detail. Pavement cuts and replacement will be in accordance with the City of Houston Street Cut requirements, and will require street cut permits. Contractor is to obtain all necessary permits related to the proposed construction activities. These include, but are not limited to, lane closures, street cut, driveway, and tree removal.

Throughout the project site, driveways and sidewalks will be built with reinforced concrete. All improved landscaping and materials shall be removed and made available to the property owners for their use at no separate cost to the City. Driveways and sidewalks shall be replaced and/or installed with the standard concrete paving as shown in the plans unless otherwise directed by the Project Manager. Decorative items such as brick sidewalks and pads, planters, etc. that do not conflict with the proposed street, sidewalk, or driveway adjacent to the proposed construction are not required to be removed. Contractor to identify all driveways with sensors prior to removing existing driveways. Contractor to repair and/or replace damaged sensor to existing condition or better at no cost to the City and shall be in working condition upon completion of construction.

Sidewalks and wheelchair ramps shall comply with current City of Houston and Texas Department of Licensing and Regulation (TDLR) requirements. Additionally, Contractor will adhere to tapering the driveways from the proposed paving to the right-to-way, as shown on the plans.

2. The construction of the storm system will include the removal of existing roadway and driveway culverts and headwalls, manholes and inlets, as noted in the Contract Drawings. The proposed drainage system will include leads which will be standard 24-inch circular RCP as well as 30-inch circular RCP. The storm sewer lines will range from 24-inch RCP to 60-inch RCP and 9-foot x 7-foot RCB.

There are two existing outfalls for this project area and both outfall into existing City of Houston maintained facilities. The majority of the drainage from the Minnetex Place Subdivision is conveyed by a 9-foot x 7-foot RCB to an existing 9-foot x 7-foot RCB approximately 375 feet north of the intersection of Almeda Genoa Road and ML King Boulevard.

The second outfall is at Kier Road where the roadside ditches are regraded from the intersection of Allison Road and Hendricksen Road east to the ditch on the west side of Kier Road.

If Contractor encounters water service lines during storm sewer construction, Contractor shall repair any damaged service line promptly to avoid extended water service interruptions. The costs related to preserve the existing water service lines are incidental to all other pay items and are at no additional cost to the City of Houston.

3. The construction of the sanitary sewer consists of the removal of existing 8 to 15-inch sanitary sewers within the City's right-of-way, and installing proposed 8 to 36-inch sanitary sewers as indicated in the Contract Drawings. Work on the sanitary sewers and all related appurtenances within this project are to be complete in place, including diversion pumping as required. The contractor shall notify the City of all sanitary sewer service interruptions two (2) weeks in advance.
4. Diversion Pumping is required for construction of the proposed sanitary sewers. Contractor to conform to Section 01506 – Diversion Pumping. Cost will be considered incidental to the various construction bid items included in Document 00410 – Bid Form, Parts A & B.

If Contractor encounters water service lines during sanitary sewer construction, Contractor shall repair any damaged service line promptly to avoid extended water service interruptions. The costs related to preserve the existing water service lines are incidental to all other pay items and are at no additional cost to the City of Houston.

5. The construction of water lines consists of the removal and/or plugging and abandonment of existing 4, 6, 8 and 12-inch water lines, along with associated appurtenances and replacing them with proposed 6, 8, 12, and 16-inch water lines and associated appurtenances. The proposed water lines shall be installed by open cut and/or trenchless construction method. The contractor shall notify the City of all water line service interruptions two (2) weeks in advance.

Water line construction activities will be such as to maintain continuous water service to residents throughout the duration of the project. Existing fire hydrants in the project limits will either remain or be salvaged, as stated on the plans. Water meter and valve boxes shall be adjusted to the new grade, or relocated, as stated on the plans. The cost of the proposed water line includes all valves and fittings.

6. Contractor will be responsible to coordinate with residents and the HOA on handling of any private features within the right-of-way a minimum of 72-hours prior to any construction activities which may impact these features. These features may include, but are not limited to: existing irrigation systems (including spray and rotary heads and related piping and electrical wiring), mailboxes, landscaping, and existing yard drains. All landscaping, irrigation and private electrical conduits and/or equipment including sprinkler systems which are affected by construction of proposed pavement, driveway, sidewalk, storm sewer, sanitary sewer, and/or water line replacement and/or due to contractor activities, will be considered incidental to the various construction bid items included in Document 00410 – Bid Form, Parts A & B. Contractor shall use caution while working within the proximity of these types of facilities so as to avoid impacts. Should impacts occur, restoration shall be to a condition that is equal to or better than prior to start of construction. The repair or replacement of these types of facilities, necessitated by construction activities, will be the contractor's responsibility at no cost to the City. Contractor should verify the operation of irrigation systems with the property owner prior to starting construction.

7. There are custom mail boxes adjacent to the roadway within the project limits. The contractor is responsible for securing and relocating the custom mailboxes during construction, and to re-install them adjacent to the roadway upon completion of installing the concrete pavement and curbs. The custom mail boxes shall be installed on a proposed 4 ½" reinforced concrete base included in the cost to relocate and re-install the custom mailboxes. Contractor is to be paid by relocating and re-installing of each mailbox. Contractor is responsible for repairing any damage to the mailbox and will be required to make the repairs to the mailbox as good condition or better at no cost to the City, and match in size, shape.
8. The Phase II ESA Assessment (ESA) has identified Potentially Petroleum Contaminated Areas on Lea Street from Station between Station 13+00 to Station 16+00. The contractor is required to inform the COH PWE Construction Manager within 24 hours if actual PPCA soil and water contaminants are encountered by the Contractor. The specific underground utilities and appurtenances that are to be installed by the contractor within this area include but are not limited to: reinforced concrete storm sewer leads, storm sewer pipe, storm sewer inlets, storm sewer manholes, sanitary sewer lines, sanitary sewer manholes, sanitary sewer leads, water lines, and new water services.
9. 7-inch High-Early Strength Reinforced Concrete is to be placed on Lincolnshire and Glengarry Road from Station 1+00 to Station 5+63.50. High-Early Strength Reinforced Concrete is to be placed to the end of radius north and south on Lea Street of the respective intersections.
10. Contractor to connect proposed 16-inch water line to the existing 16-inch water line at the nearest joint to avoid cutting of existing 16-inch water line.
11. No separate payment for post-construction closed circuit television of new sanitary sewer lines. Contractor to include the price in the installation of the new sanitary sewer lines.
12. Contractor to remove and replace all existing sanitary sewer service leads and install new clean-out right-of-way. Contractor to match the existing flowline of the service lead and transfer service. A clean-out will not be placed on the sanitary sewer service lead to empty lots.
13. Portions of the existing 4-inch, 6-inch, and 8-inch water lines are required to construct the proposed utilities for this project. Removal of each size line is paid per linear foot. Cutting and plugging of existing lines for removal to be included in the price of removal. Additional cutting and plugging of existing water lines for contractor's convenience shall be at contractor's expense.
14. Contractor will be responsible to remove and replace permanent signs and pavement markings, as denoted in the Contract Drawings. Pavement striping shall be in accordance to standard City of Houston specifications and details.
15. Contractor will be responsible to maintain adequate traffic control for the duration of the project, as provided in the Contract Drawings. Traffic control will be accordance with the latest version of the Texas Manual of Uniform Traffic Control Devices (TMUTCD).
16. No separate payment will be made for proposed bends in the storm sewer box. Cost will be considered incidental to the various construction bid items included in

Document 00410 – Bid Form, Parts A & B.

17. No separate payment will be made for connecting storm sewer box/pipes to proposed/existing manholes, RCB's, and junction boxes. Cost will be considered incidental to the various construction bid items included in Document 00410 – Bid Form, Parts A & B.
 18. Storm sewer plugs are proposed at various locations shown on the drawings. These plugs are to be installed at locations of future tie-in connections and are to be installed in accordance with Specification Section 04210 – Brick Masonry for Utility Construction. Payment for the storm sewer plugs shown on the drawings will be paid on a unit price basis for each size plug installed.
 19. Storm sewer junction boxes to be designed by contractor's supplier. The contractor's supplier is to provide shop drawings signed and sealed by a Texas licensed Professional Engineer.
 20. Fences encroaching two (2) feet within the right-of-way have been identified as to be relocated to the Right-of-Way. These fences include chain link, wooden, and wrought iron fences and are to be same height and material. Relocation of fence to the Right-of-Way includes fencing and all gates. The relocated fence is to be replaced to existing or better condition upon completion of relocation.
 21. No separate payment will be made for roadway borrow (off-site) material. Filling of existing ditches will be paid under Embankment included in Document 00410 – Bid Form, Parts A & B.
 22. Contractor will be responsible to use caution and due diligence where the proposed improvements are in proximity to existing private utilities including gas lines, buried or overhead cables, etc., so as to not adversely impact such private utilities within the project area. Contractor will contact and coordinate with the private utility agencies whose facilities may be impacted by the proposed improvements, as required. The proposed improvements cross existing CenterPoint Gas and CenterPoint Energy facilities at various locations in the project limits.
 23. Contractor to install Hydro-Mulch seeding within the project limits at the following locations:
 - a. Allison Road from approximately Sta. 25+50 to Sta. 46+50.
 - b. MLK Boulevard –within the median Sta. 18+70 to Sta. 22+60.
- Hydro Mulch seeding shall be installed and paid in accordance with Specification Section 02921 – Hydro Mulch Seeding.
24. Contractor is to comply with O.S.H.A. regulations and state of Texas law concerning excavation, trenching and shoring.
 25. Contractor must actively coordinate with private utilities during the construction phase to ensure no delay in completion of the project.
 26. Contractor to remove existing debris and rubbish from within the right-of-way within the Project Limits. No separate payment will be made for removing the debris. Cost of removing debris is to be included in Mobilization – Section 01502.

27. Contractor will be responsible to provide tree and plant protection in accordance with City standards, specifications, details and the TPP for the project.

If shown on contract drawings, location(s) of tree root protection steel checker plates shall be coordinated with Project Manager at a time after the bid process is complete for this project. Contractor's qualified Arborist shall determine and recommend location(s) of checker plates to Project Manager for approval.

Contractor is responsible for obtaining all tree removal permits prior to any tree removals that are not included in the TPP. Permits can be obtained from the City of Houston Department of Parks and Recreation by contacting Mr. Dale Temple at (832)-395-8459. Any tree removal permit provided to the Contractor by the City of Houston prior to construction will only be issued for the trees listed for removal in the Contract Drawings.

Notify City of Houston Parks and Recreation Department representative Mr. Dale Temple, City Forester, at (832)-395-8459 at least two (2) weeks in advance of clearing and/or cutting any tree.

28. Contractor will be responsible to implement the Storm Water Pollution Prevention Plan (SWPPP) and use best practices during construction. Project construction activities will disturb an area greater than 5 acres. See Section 01410 – TPDES Requirements. Contractor shall be responsible for all fees, including notices, filings and permits, associated with SWPPP and TPDES requirements at no additional cost to the City of Houston. The Cash Allowance for TPDES permit is limited to the application fee for the Notice of Intent for Storm Water Discharges Associated with Construction Activity under TPDES General Permit.
29. The contractor will be responsible to obtain all necessary permits, including, but not limited to: lane closures, street cut, driveway and tree removal. Permits that are required and are not paid under Cash Allowances are incidental to all other pay items and are at no additional cost to the City of Houston.
30. Project identification signs are required on this project. See Section 01580 – Project Identification Signs. Cost is incidental to Bid Item for Mobilization.
31. Contractor may not move construction activities from one street to another without completely finishing the prior street.
32. Contractor is to maintain access to all residences and business along construction route at all times during construction.
33. No separate payment will be made for PVC yard drains. Surface restoration under Section 01145 – Use of Premises, covers PVC and yard drains as incidental work to restore the site to the existing condition before construction, or better.
34. Contractor is responsible to ensure that all fences are maintained during construction so as to protect livestock within the project limits.
35. All mailboxes damaged or in need of relocation shall be done by the Contractor during construction including restoration of like boxes in kind. U.S. Postal Service Mailboxes and delivery routes within each neighborhood interrupted by construction shall be relocated and detoured at the Contractor's expense and shall be coordinated with the local branch of the U.S. Postal Service. This work will not

be paid for separately but shall be incidental to the various work being performed.

36. All existing traffic signs, stop signs, warning signs, and barricades noted on the construction drawings as being relocated or that may exist at the time of construction shall be removed, stored, and relocated to their present location upon completion of the roadway construction. If these signs are damaged or no longer suitable for use, then replacement signs shall be provided in kind at no additional cost to the City. This item shall be paid for per each sign to be removed, stored and replaced. Prior to removal, Contractor is to provide a list of signs to the City Project Manager for approval.
37. Clearing and grubbing is to be paid for removal of debris, tree roots, and non-ordinance protected trees with the work done to re-grade existing ditches between Hendrickson Road and Kier Road.

D. COORDINATION

1. Coordinate with Robert L. Frost Elementary School of Space Science located at 5002 Almeda-Genoa Road, Houston, Texas 77048 by contacting Principal David E. Terrell at (713) 732-3490 for the construction along Hendricksen Road to minimize disruption to student drop-off/pickup and also during traffic control switch, transfer of utility services, potential delays and other construction activities which may impact the operation of the school. Two uniformed peace officers will be required for school related traffic control between 7:00 AM to 8:00 AM and 3:00 PM to 4:30 PM Monday through Friday, except school holidays. No construction activities are permitted during these hours. Contractor shall cover open excavations with steel plates anchored properly during non-working hours. The Contractor is also encouraged to perform all the work along Hendricksen Road during summer months from June to August if their construction schedule/sequence permits. Contractor shall also contact Houston Independent School District (HISD) Construction and Facility Department at 713-556-9250 a minimum of 10 working days prior to any construction activity or traffic control near the school.
2. Coordinate with CenterPoint Energy Lighting Design Section during construction of proposed street lighting including scheduling of inspection and transfer of services following installation.
3. Contractor is responsible for scheduling and coordinating construction activities associated with private utility construction so as not to adversely impact the construction schedule. Only one mobilization is allowed for this contract. Contractor will notify the City's representative once the utility relocation schedule has been established. See below for contact information and estimated relocation times for the private utility companies.

- CenterPoint Energy Electric: Contact Travis Drabek, Tel: (281) 561-3236.

Relocation of four (4) existing CenterPoint Electric power poles are expected to begin on March, 2015. Completion of Relocating the power poles are to be complete by April 2015. Contact: Scott Owens, Tel. (713) 945-6211 email: scott.owens@centerpointenergy.com

- CenterPoint Energy Street Lighting: Contact Robert Tinnin, Tel: (713) 945-6242.

- CenterPoint Energy Gas: Contact Louis Cardenas 1111 Louisiana, 12th floor, Houston, TX 77002, Tel: (713) 207-4605.

Relocation of existing CenterPoint Energy Gas lines are expected to begin on January 1, 2015. Relocation of existing gas lines are expected to be completed within four (4) months once commencement.

City of Houston is to be notified in the event that the contractor anticipates the CenterPoint Energy schedule is not adhered to.

- AT&T: Contact Ms. Diana Ward, 6500 West Loop South, Zone 1.3, Bellaire, Texas 77401, Tel: (713) 660-5304.
- Comcast: Contact William Leopard, 7033 Airport Blvd, Houston, TX 77061 Tel: (281) 624-3022 email: William.leopard@cable.comcast.com

1.03 CASH ALLOWANCES

- A. Include the following specific Cash Allowances in Contract Price under provision of General Conditions Paragraph 3.11:

1. Street cut permit.
2. TPDES Permit.
3. CenterPoint Energy Street Lighting.

Cash allowance included in Document No. 00410B.

1.04 ALTERNATES

- A. None.

1.05 CITY-FURNISHED PRODUCTS

- A. Items Furnished by the City for Installation and final connection by Contractor:

1. None.

- B. Contractor's Responsibilities:

1. Arrange and pay for Product delivery to the site.
2. Receive and unload Products at the site; jointly with the City, inspect for completeness or damage.
3. Handle, store, Install, and finish Products.
4. Repair or replace damaged items.

1.06 WORK SEQUENCE

- A. Construct the Work in Phases during the construction period as shown on the Traffic Control

and Detour Plans.

- B. For projects with no Phases, Contractor shall not disturb more than 50% of total project linear feet of disturbed right-of-way and easement until site is restored in accordance with Section 01740 – Site Restoration.
- C. Coordination of the Work: Refer to Section 01312 - Coordination and Meetings.

- 1. The Contractor shall coordinate with the Project Manager for special meetings.

1.07 CONTRACTOR USE OF PREMISES

- A. A field office is required on this project. See Section 01520 – Temporary Field Office. Cost is incidental to Bid Item for Mobilization.
- B. Comply with procedures for access to the site and Contractor's use of rights-of-way as specified in Section 01145 - Use of Premises.
- B. Construction Operations: Limited to the City's rights-of-way provided by the City and areas shown or described in the Contract documents.
- C. Utility Outages and Shutdown: Provide a minimum of 48 hours notice to the City and private utility companies (when applicable), excluding weekends and holidays, in advance of required utility shutdown. Coordinate all work as required.

1.08 STREET CUT ORDINANCE

- A. Excavations on or under pavement in the City's right-of-way must have a permit. Comply with City of Houston, Texas Ordinance No. 2000-1115, an ordinance amending Chapter 40 of the Code of Ordinances, Houston, Texas, relating to excavating in the Public right-of-way.
- B. Comply with the latest edition of street cut New Pavement Repair and Pavement Replacement details.
- C. Quantities are included for street cut pavement repair and replacement in applicable Specification sections for Unit Price contracts.
- D. For detailed information concerning the ordinances' latest detail drawings and permits related to compliance with excavation in the Public Right-of-Way and Street Cut, visit the City's web site at: <http://www.publicworks.houstontx.gov/documents/index.htm> or <http://www.gims.houstontx.gov/>

1.09 WARRANTY

- A. Comply with warranty requirements in accordance with Document 00700 - General Conditions.

1.10 ADDITIONAL CONDITIONS FOR SUBSTANTIAL COMPLETION

- A. In addition to requirements outlined in Document 00700 – General Conditions, for Contractor to be substantially complete with the Work and call for inspection by Project Manager to confirm, the following conditions must be met or completed:

1. All pay items complete report.
2. All testing shall be completed and accepted by Project Manager.
3. All safety related work, including pavement striping, signing and permanent signalization, is complete and accepted by Project Manager.
4. All safety related systems and equipment shall be installed, accepted by manufacturer's representative (per Specification requirements) and approved for use.
5. Contractor shall contact Project Manager to complete Texas Department of Licensing and Regulation Post Construction Inspection of pedestrian elements, such as sidewalks and wheelchair ramps, for Texas Accessibility Standards.
6. Traffic is operating in all lanes at all times, unless lane reductions are due to adjacent construction projects.
7. All services and utilities are operational.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

PORTLAND CONCRETE SACK SEGMENTED RETAINING WALL

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Furnish and install Portland Concrete Sack Segmented Retaining Wall.

1.02 MEASUREMENT AND PAYMENT

- A. Unit Prices.

1. Payment for Portland Concrete Sack Segmented Retaining Wall is on a square foot basis for installed wall measured along the face of completed wall.
2. Payment will include and be full compensation for labor, equipment, materials and supervision for excavation and construction of Portland Concrete Sack Segmented Retaining Wall complete in place including: Concrete sacks, reinforcing bars, geotextile fabric, weep holes, granular backfill, cement stabilized sand, excavation, backfill, grading, and storm water pumping.
3. Refer to Section 01270-Measurement and Payment for unit price procedures.

1.03 SUBMITTALS

- A. Conform to requirements of Section 01330 – Submittal Procedures.
- B. Submit manufacture's data and details for the following items for approval:
 1. Concrete Sacks
 2. Cement Stabilized Sand
 3. Geotextile material

PART 2 PRODUCTS

2.01 CONCRETE SACK

- A. Concrete Sacks shall be 90 lb. portland cement sacks.

CITY OF HOUSTON

STANDARD SPECIFICATION

Portland Concrete Sack Segmented Retaining Wall

2.02 CEMENT STABILIZED SAND

- A. Conform to requirements of Section 02321 – Cement stabilized Sand.

2.03 GEOTEXTILE

- A. Conform to requirements of Section 02621 - Geotextile

PART 3 EXECUTION

3.01 PROTECTION

- A. Prevent erosion at all times. Maintain ditches and cut temporary swales to allow natural drainage.
- B. Maintain excavation and embankment areas until start subsequent work. Repair and re-compact slides, washouts, settlements, or areas with loss of density.

END OF SECTION

VERTICAL CURVE EAST

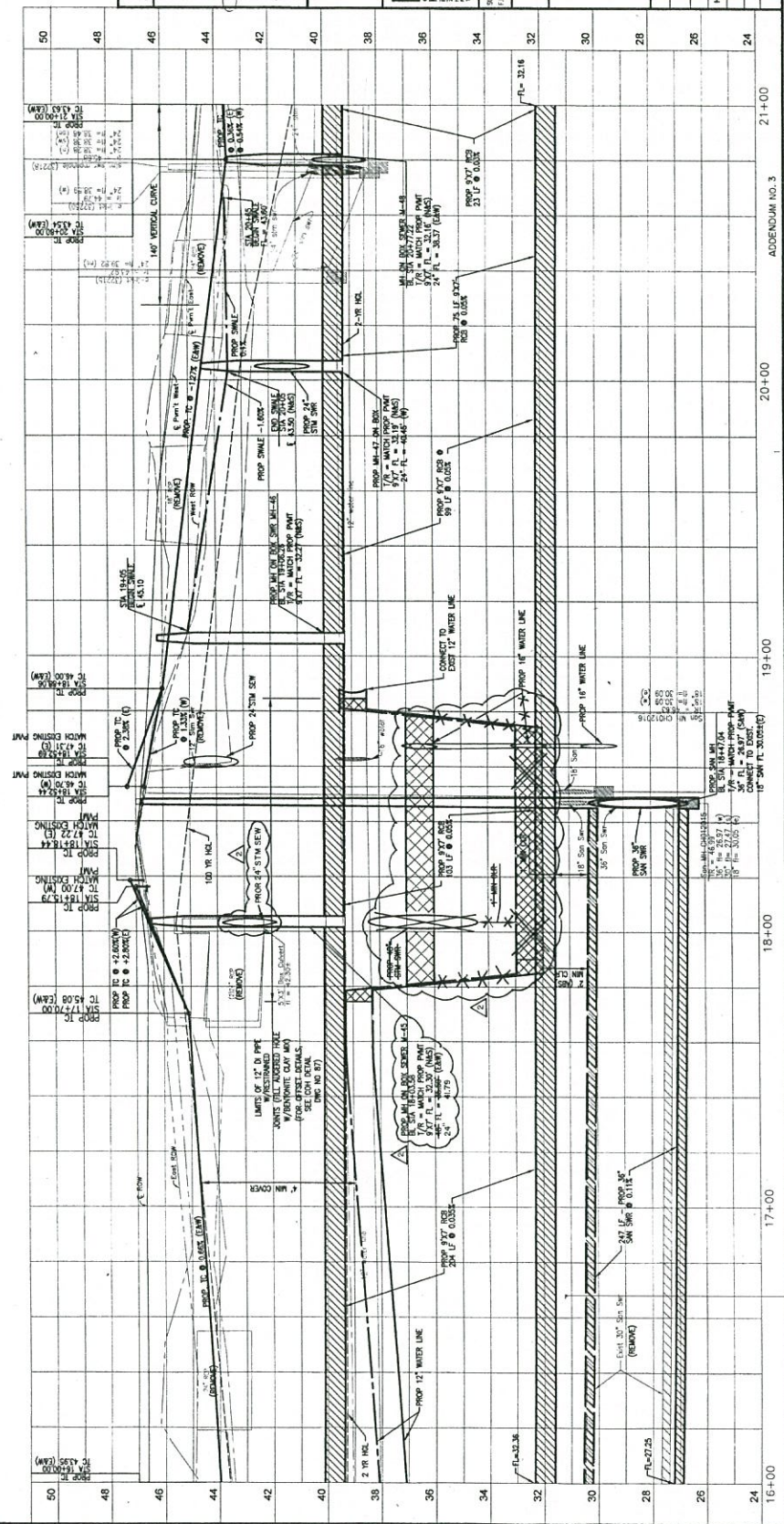
Station	TC	Station	TC
20+10	44.43	20+90	43.80
20+20	44.51	21+00	43.77
20+30	44.59	21+10	43.74
20+40	44.67	21+20	43.71
20+50	44.75	21+30	43.68
20+60	44.83	21+40	43.65
20+70	44.91	21+50	43.62
20+80	44.99	21+60	43.59
20+90	45.07	21+70	43.56
20+100	45.15	21+80	43.53
20+110	45.23	21+90	43.50

VERTICAL CURVE WEST

Station	TC	Station	TC
20+10	44.43	20+90	43.80
20+20	44.51	21+00	43.77
20+30	44.59	21+10	43.74
20+40	44.67	21+20	43.71
20+50	44.75	21+30	43.68
20+60	44.83	21+40	43.65
20+70	44.91	21+50	43.62
20+80	44.99	21+60	43.59
20+90	45.07	21+70	43.56
20+100	45.15	21+80	43.53
20+110	45.23	21+90	43.50

PROFILE VIEW

COTTINGHAM ROAD/MLK BLVD



PRIVATE UTILITY LINES SHOWN
 IF ANY OTHER PRIVATE UTILITY LINES ARE SHOWN, THEY ARE THE PROPERTY OF THE OWNER. THE USER ASSUMES ALL LIABILITY FOR THE ACCURACY OF THE INFORMATION SHOWN. NO ASSURANCE IS GIVEN FOR THE INFORMATION SHOWN. NO ASSURANCE IS GIVEN FOR THE INFORMATION SHOWN.

DATE: 11/14/17
BY: [Signature]
FOR: [Signature]

SDPS
 Houston Storm Drainage
 Program Support

KT
 K&T Professionals, Inc.
 10100 Katy Road, Suite 100
 Houston, Texas 77054
 Phone: 281-460-1111
 Fax: 281-460-1112
 Email: info@ktpros.com
 Website: www.ktpros.com

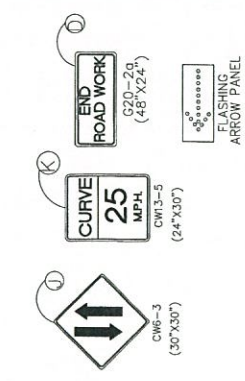
CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
 MINNETEX PLACE AND ALMEDA
 GENOA PLACE DRAINAGE AND
 PAVING IMPROVEMENTS
 PROFILE
 COTTINGHAM - STA 16+00 TO 21+00
 (8 OF 10)

WBS NUMBER
 M-000289-0002-4
DRAWING SCALE
 HORIZ. 1"=20' VERT. 1"=2'
CITY OF HOUSTON, TX
JASON VO 157
SHEET No. 65 OF 157

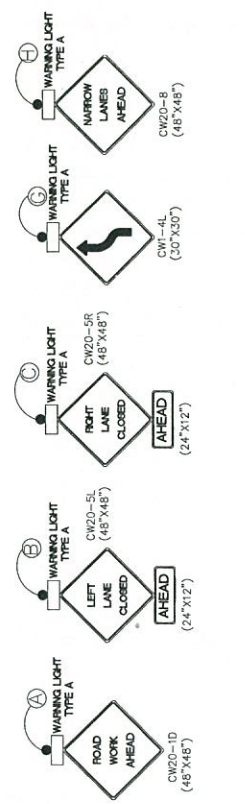
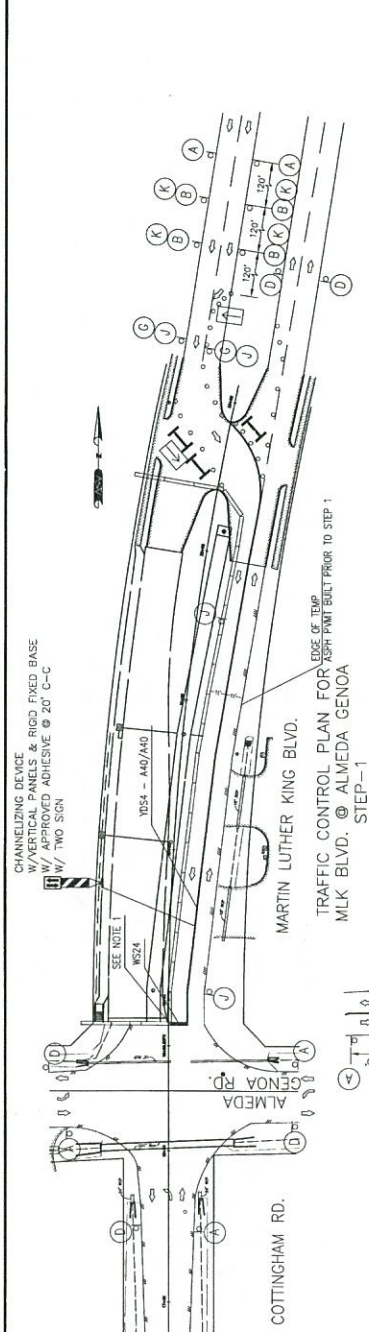
LEGEND:

- DRUM W/VERTICAL PANEL OR SIGN @ 20'C-C AND WARNING LIGHT TYPE A @ 20'C-C
- PROPOSED CONSTRUCTION SIGN
- DIRECTION OF TRAFFIC
- DEMOUNTABLE TYPE III BARRICADE
- W/2 TYPE 'B' FLASHERS
- LFCB - LOW PROFILE CONCRETE TRAFFIC BARRIER @ 40' C-C
- W/VERTICAL PANEL
- FLASHING ARROW

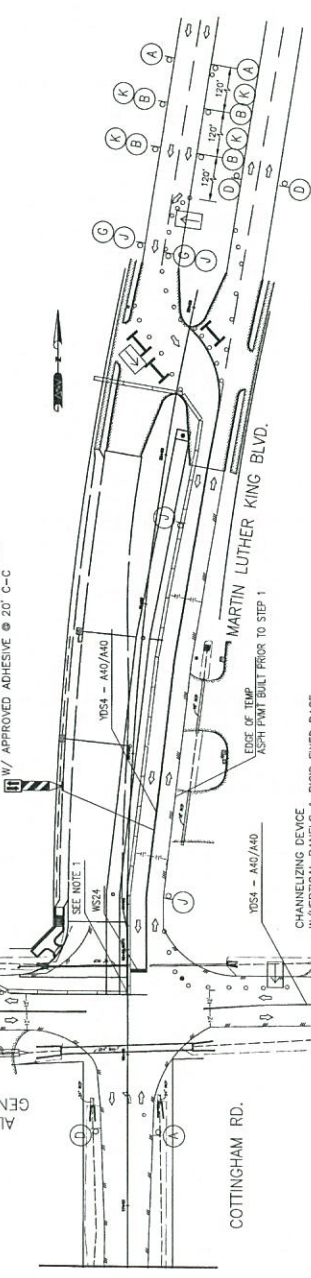
NOTE 1: CONTRACTOR TO INSTALL END TREATMENT TO NOT TO HAVE BLUNT EDGE



SEE SHEET 14 OF 14 FOR TRAFFIC CONTROL PLAN GENERAL NOTES



CHANNELIZING DEVICE W/ VERTICAL PANELS & RIGID FIXED BASE W/ APPROVED ADHESIVE @ 20' C-C



CHANNELIZING DEVICE W/ VERTICAL PANELS & RIGID FIXED BASE W/ APPROVED ADHESIVE @ 20' C-C

Alameda Genoa Road
Contractor to add approximately 10 feet of temporary asphalt to the north side of Alameda Genoa through the existing roadway in a length of 150 feet. Contractor to extend existing roadside culvert to past edge of temporary pavement and post signs to reduce speed limit to 30 mph through this construction zone.

Cottingham Road/MLK Blvd
Contractor to use TCP 3 of 14 (Sheet 83) to move traffic to the west half of the roadway on Cottingham Road.

TRAFFIC CONTROL PLAN FOR
MLK BLVD. @ ALMEDA GENOA
STEP-2

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
MINNETEX PLACE AND ALMEDA
GENOA PLACE DRAINAGE AND
PAVING IMPROVEMENTS
TRAFFIC CONTROL PLAN FOR
MLK BLVD. @ ALMEDA GENOA
SHEET 2 OF 14

WBS NUMBER: M-000289-0002-4
DRAWING SCALE: NTS
CITY OF HOUSTON, TX
JASON VO
SHEET NO. 92 OF 157